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## FOREWORD

This bibliography lists 714 technical publications of the U. S. Army Electronics Command prepared during calendar year 1966. The citations are grouped by organizational element. Two indexes are provided: a Key Word in Context (KWIC) index for retrieval of titles by subject area, and an author index. U.S. patents granted to ECOM personnel are listed separately.

Among the broad subject areas covered in the bibliography are: electronic engineering, communications, automatic data processing systems, combat surveillance, avionics, navigation, atmospheric sciences, electronic warfare, electronic components, power sources, materials, and related fields of physics and mathematics.

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The Key Word in Context (KWIC) index allows you to find out rapidly and easily if any of the titles in this bibliography contain words of interest.

Merely look for the word in question in the alphabetical list of terms appearing down the center of the page. If that word does not appear, try other related words.

The full title will appear surrounding each key word. In some cases, long titles will be cycled back to the beginning of the line.

If the title looks interesting, you will find full bibliographic identification of the item, by number, in the Bibliography section of this report.

Copies of the listed papers are available from sources as indicated on the preceding page.

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	BIOCHEMICAL FUEL CELL		620
	BIOCHEMICAL FUEL CELL		625
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ORDERING CODE: 2 AD-642 408L, AMSEL-KL-SM
- 363 WIDE DYNAMIC RANGE VHF PRESELECTOR#  
BY: GIANNOTTO, J. M. GHARAK, E. J.  
TECHNICAL REPORT ECOM-2756, SEPTEMBER 1966  
ORDERING CODE: 1 AD-643 931, AMSEL-KL-EC
- 364 FAST MILLIMETER FERRITE LATCHING SWITCH#  
BY: STERN, N. A. AGRIOS, J. P.  
TECHNICAL REPORT ECOM-2757, SEPTEMBER 1966  
ORDERING CODE: 1 AD-642 143, AMSEL-KL-EM
- 365 CAPACITOR CHARACTERISTICS OF ANODIZED THIN FILM HAFNIUM#  
BY: RAFFALOVICH, A. J.  
TECHNICAL REPORT ECOM-2758, SEPTEMBER 1966  
ORDERING CODE: 1 AD-641 338, AMSEL-KL-TB
- 366 HEAT MOISTURE CRACKING OF HANCOSET-138#  
BY: PLATAU, G.  
TECHNICAL REPORT ECOM-2714, MAY 1966  
ORDERING CODE: 2 AD-644 073L, AMSEL-KL-EE
- 367 ON THE ORTHOGONALITY OF ELECTRON BEAM WAVES IN A FINITE MAGNETIC FIELD  
BY: ZOTTER, B.  
TECHNICAL REPORT ECOM-2678, MARCH 1966  
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- 368 A COAXIAL CAVITY POWER AMPLIFIER (1300 TO 100 MEGAHERTZ)#  
BY: FINCKE, G. C., JR.  
TECHNICAL REPORT ECOM-2679, MARCH 1966  
ORDERING CODE: 1 AD-681 01, AMSEL-KL-TS
- 369 CHROMIUM MASKS FOR MICROCIRCUITRY#  
BY: ROGEL, A.  
TECHNICAL REPORT ECOM-2715, MAY 1966  
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- 370 PREPARATION OF CHEMICAL VAPOR DEPOSITED MATERIALS FOR USE IN FIELD-ENHANCED ELECTRON EMISSION STUDIES#  
BY: MCMASTER, D. G.  
TECHNICAL REPORT ECOM-2681, MARCH 1966  
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- 371 AN ADVANCEMENT IN TRANSISTOR SECOND BREAKDOWN PERFORMANCE USING MOLYBDENUM METALIZATION#  
BY: MAKIN, E. B.  
TECHNICAL REPORT ECOM-2716, MAY 1966  
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- 372 HIGH POWER S-BAND POWER DIVIDERS#  
BY: TRUE, R. M.  
TECHNICAL REPORT ECOM-2685, MARCH 1966  
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BY: CABELL, S. BOBISCHEN, D.  
TECHNICAL REPORT ECOM-2718, AUGUST 1966  
ORDERING CODE: 1 AD-638 416, AMSEL-KL-TQ
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BY: FRANKEL, H. C.  
TECHNICAL REPORT ECOM-2687, MARCH 1966  
ORDERING CODE: 1 AD-631 803, AMSEL-KL-IB
- 375 INVERSE RESISTANCE POWER EFFECT IN QUARTZ CRYSTAL UNITS#  
BY: BEHNSTEIN, M.  
TECHNICAL REPORT ECOM-2688, MARCH 1966  
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- 376 RADIATION-RESISTANT SINGLE SIDE-BAND QUARTZ CRYSTAL UNITS#  
BY: STANLEY, J.  
TECHNICAL REPORT ECOM 2689, MARCH 1966  
ORDERING CODE: 2 AD-481 968, AMSEL-KL-SP
- 377 INVESTIGATION OF NOISE IN MAGNETRON INJECTION GUNS#  
BY: FISCHER, P.  
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BY: BRANDMAYR, R. J.  
TECHNICAL REPORT ECOM-2719, AUGUST 1966  
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TECHNICAL REPORT ECOM-2692, APRIL 1966  
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BY: ANDRESEN, M. G. PANNACI, E.  
TECHNICAL REPORT ECOM-2720, JUNE 1966  
ORDERING CODE: 1 AD-636 582, AMSEL-KL-SM FULTON, J. N.
- 381 OPERATION OF THE INTEGRATED DISTRIBUTED AMPLIFIER TYPE Z-5278#  
BY: CHREPTA, M. M.  
TECHNICAL REPORT ECOM-2723, JUNE 1966  
ORDERING CODE: 1 AD-637 304, AMSEL-KL-TS
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BY: ALMERINI, A. L.  
TECHNICAL REPORT ECOM-2694, APRIL 1966  
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BY: HIGGINS, V. J. BRAND, F. A.  
TECHNICAL REPORT ECOM-2696, APRIL 1966  
ORDERING CODE: 1 AD-635 084, AMSEL-KL-SM BARANOWSKI, J. J.

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BY: GEMBER, E. A.  
TECHNICAL REPORT ECOM-2697, APRIL 1966  
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BY: NIESLMAN, H.  
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- 386 EVALUATION OF THE NOVIKOV TRIODE TYPE 8856#  
BY: MUESSLE, W. G.  
TECHNICAL REPORT ECOM-2700, APRIL 1966  
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- 387 AERIAL INSTALLATION OF CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL C  
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BY: POMERANTZ, M. ROGERS, F.  
TECHNICAL REPORT ECOM-2711, MAY 1966  
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- 388 DEPOSITION TECHNIQUES FOR THIN FILM PASSIVE PARTS#  
BY: PRATT, I. H.  
TECHNICAL REPORT ECOM-2725, JULY 1966  
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- 389 INVESTIGATION OF PLASMA GENERATORS FOR MICROWAVE DEVICES#  
BY: WEINER, M. TRUE, R. M. EDWARDS, E. V.  
TECHNICAL REPORT ECOM-2704, JUNE 1966  
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- 390 IMPROVEMENT OF MILITARY RF CONNECTOR DESIGNS FOR INCREASED RELIABILITY  
BY: MAYO, W. E.  
TECHNICAL REPORT ECOM-2705, MAY 1966  
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- 391 BEHAVIOR OF HYDROGEN MASERS UNDER COHERENT LOW-FREQUENCY ZEEMAN TRANSITION EXCITATION#  
BY: ANDRESEN, H. G.  
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- 392 MICROWAVE TRANSISTOR AMPLIFIER RESEARCH#  
BY: GELNOVATCH, V.  
TECHNICAL REPORT ECOM-2707, JULY 1966  
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- 393 FEASIBILITY STUDY OF TIME SCALE SELECTOR FOR ADAPTER SYNTHESIZER#  
BY: GENERAL TECHNOLOGY CORP.  
CONTRACT NO. DA-28-043-ANC-00328(E), FEBRUARY 1966  
ORDERING CODE: 2 AD-482 141, ANSEL-KL-SM
- 394 LOW COST MICROCIRCUIT NETWORKS#  
BY: ELECTRONIC FILMS INC.  
CONTRACT NO. DA-28-043-ANC-00284(E), APRIL 1966  
ORDERING CODE: 1 AD-632 420, ANSEL-KL-IR
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BY: BRAYDEN, R. BONMAN, D. MCSHERRY, L.  
TECHNICAL REPORT ECOM-2661, FEBRUARY 1966  
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- 396 LIFE EXPECTANCY OF A NEW MINIATURE POWER RELAY#  
BY: FONTANA, W. J.  
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BY: LITTON INDUSTRIES  
CONTRACT NO. DA-36-039-SC-87313, MAY 1966  
ORDERING CODE: 2 AD-482 116, AMSEL-KL-TM
- 398 INVESTIGATION OF ELECTRONIC INTERACTION WITH OPTICAL RESONATORS FOR  
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BY: VARIAN ASSOCIATES  
CONTRACT NO. DA-28-043-AMC-00480(E), JULY 1966  
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BY: PERKIN-ELMER CORP.  
CONTRACT NO. DA-28-043-AMC-00474(E), JUNE 1966  
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- 400 HOLLOW BEAM FORMATION IN HIGHLY CONFINED ELECTRON FLOWS  
BY: ZOTTER, B.  
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- 401 100-KILOVOLT CERAMIC METAL THYRATRON#  
BY: ITT ELECTRON TUBE DIV.  
CONTRACT NO. DA-36-039-AMC-03272(E), JUNE 1966  
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- 402 SOLID STATE TECHNIQUES FOR MODULATION AND DEMODULATION OF OPTICAL WA  
VES#  
BY: TEXAS INSTRUMENTS INC.  
CONTRACT NO. DA-36-039-AMC-03250(E), SEPTEMBER 1966  
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S#  
BY: BOWMAN, D. RUPP, W. N.  
TECHNICAL REPORT ECOM-2674, MARCH 1966  
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- 405 QUARTZ CRYSTAL AGING EFFECTS#  
BY: GEORGIA INSTITUTE OF TECH.  
CONTRACT NO. DA-36-039-AMC-02251(E), FEBRUARY 1966  
ORDERING CODE: 1 AD-633 724, AMSEL-KL-SP
- 406 STUDY OF NOISE IN SEMICONDUCTOR DEVICES#  
BY: UNIVERSITY OF MINNESOTA  
CONTRACT NO. DA-28-043-AMC-01701(E), JULY 1966  
ORDERING CODE: 1 AD-636 324, AMSEL-KL-SS
- 407 EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE, SURFACE  
EFFECTS#  
BY: HUGHES AIRCRAFT CO.  
CONTRACT NO. DA-28-043-AMC-00418(E), APRIL 1966  
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BY: PALMISANO, F. KAPLAN, L. L.  
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BY: LAROCQUE, A. P. KORNOLKOFF, N. ROGEL, A.  
MCNEIL, G. RIBLE, V. E.  
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BY: METTE, H.  
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BY: SKUDERA, W. MADE, W. L., JR. COLLINS, T.  
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BY: RUPP, N. M.  
TECHNICAL REPORT ECOM-2653, FEBRUARY 1966  
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BY: SCHNEIDER, S. BUFFA, A. J.  
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BY: CHREPTA, M. M. WEINSTEIN, J. TAYLOR, G. W.  
ZINN, M. H.  
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BY: SCOVILLE, T. F.  
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- 419 LOW-LEVEL, CROSSED FIELD NOISE STUDY#  
BY: HANTLEY, J. H.  
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- 420 EFFECTS OF FINITE BEAM SIZE ON THE NOISE FIGURE OF TRAVELING WAVE TU  
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BY: ZOTTER, B.  
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- 421 DIRECT PRODUCTION OF ELECTRICAL PULSES FROM GALVANIC CELLS -- III  
BY: HUNGER, H. F. WYNN, J. E.  
TECHNICAL REPORT ECOM-2670, MARCH 1966  
ORDERING CODE: 1 AD-632 103, ANSEL-KL-PB
- 422 RADIATION EFFECTS ON DIELECTRIC MATERIALS  
BY: GENERAL DYNAMICS CORP.  
CONTRACT REPORT DA-28-043-AMC-01412(E), DECEMBER 1966  
ORDERING CODE: 1 AD-645 535, ANSEL-KL-IB
- 423 STUDY AND INVESTIGATION LEADING TO THE DESIGN OF BROADBAND HIGH POWER  
KLYSTRON AMPLIFIERS  
BY: EIMAC DIV., VARIAN  
CONTRACT NO. DA-28-043-AMC-01362(E), NOVEMBER 1966  
ORDERING CODE: 2 AD-804 956, ANSEL-KL-TM
- 424 KU BAND PULSED MAGNETRON  
BY: LITTON INDUSTRIES  
CONTRACT REPORT DA-28-043-AMC-01317(E), DECEMBER 1966  
ORDERING CODE: 1 AD-645 306, ANSEL-KL-TM
- 425 METAL BASE TRANSISTOR FET  
BY: PHILCO CORP.  
DA-28-043-AMC-00161(E), JULY 1966  
ORDERING CODE: 1 AD-642 524, ANSEL-KL-ID
- 426 RADIATION EFFECTS ON (MONOLITHIC) MICROELECTRONIC CIRCUITS  
BY: HUGHES AIRCRAFT CO.  
CONTRACT NO. DA-28-043-AMC-0131(E), NOVEMBER 1966  
ORDERING CODE: 1 AD-642 301, ANSEL-KL-IC
- 427 HIGH SPEED MICROWAVE FERRITE SWITCHES  
BY: BENDIX CORP.  
CONTRACT NO. DA-28-043-AMC-01496(E), OCTOBER 1966  
ORDERING CODE: 2 AD-802 067L, ANSEL-KL-EM
- 428 THIN FUEL CELL ELECTRODES  
BY: UNION CARBIDE CORP.  
FINAL REPORT, CONTRACT DA-28-043-AMC-01344(E), JUNE 1966  
ORDERING CODE: 1 AD-680 077, ANSEL-KL-PC
- 429 LOW TEMPERATURE REFRACTORY METAL TO CERAMIC SEALS  
BY: SPERRY RAND CORP.  
CONTRACT NO. DA-36-039-AMC-03734(E), APRIL 1966  
ORDERING CODE: 1 AD-682 362, ANSEL-KL-TQ
- 430 MICROMINIATURE CRYSTAL UNITS  
BY: GENERAL ELECTRIC CO.  
CONTRACT REPORT DA-36-039-AMC-02232(E), OCTOBER 1965  
ORDERING CODE: 2 AD-892 565, ANSEL-KL-SP
- 431 RELIABLE, LOW COST, STABLE RESISTOR, GENERAL PURPOSE  
BY: IRC, INC.  
CONTRACT NO. DA-36-039-AMC-02202(E), SEPTEMBER 1966  
ORDERING CODE: 1 AD-688 001, ANSEL-KL-EC
- 432 TRANSISTOR, VHF, SILICON POWER, LINEAR, 80MHZ, 100 WATTS PEP  
BY: RADIO CORPORATION OF AMERICA  
CONTRACT NO. DA-28-043-AMC-01387(E), DECEMBER 1966  
ORDERING CODE: 2 AD-804 551, ANSEL-KL-SS
- 433 CHEMICALLY PUMPED LASER SYSTEM  
BY: AERONUTRONIC DIV, PHILCO CORP.  
CONTRACT NO. DA-36-023-AMC-0325 T, AUGUST 1966  
ORDERING CODE: 2 AD-488 719, ANSEL-KL-SM

SANFILIPPO, N. J.

- 434 FUEL CELL CATALYSTS#  
BY: ENGELHARD INDUSTRIES, INC.  
FINAL REPORT, CONTRACT DA-28-043-AMC-01286(E), AUGUST 1966  
ORDERING CODE: 2 AD-488 908L, AMSEL-KL-PB
- 435 MINATURE HYDROGEN GENERATOR#  
BY: UNION CARBIDE CORP.  
CONTRACT NO. DA-28-043-AMC-01375(E), AUGUST 1966  
ORDERING CODE: 1 AD-637 242, AMSEL-KL-PC
- 436 X-BAND SOLID STATE POWER SOURCE#  
BY: FAIRCHILD SEMICONDUCTOR  
CONTRACT NO. DA-28-043-AMC-00120(E), APRIL 1966  
ORDERING CODE: 2 AD-487 139, AMSEL-KL-P
- 437 EFFECTS OF EXTERNAL FORCES (TRANSIENT AND PERMANENT)#  
BY: LOWELL TECHNOLOGICAL INSTITUTE  
FINAL REPORT, CONTRACT DA-28-043-AMC-01240(E), SEPTEMBER 1966  
ORDERING CODE: 2 AD-488 575, AMSEL-KL-SP
- 438 STUDY OF GERMANIUM DEVICES FOR USE IN A THERMOPHOTOVOLTAIC CONVERTER  
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BY: GENERAL MOTORS CORP.  
CONTRACT NO. DA-28-043-AMC-01420(E), JULY 1966  
ORDERING CODE: 1 AD-636 249, AMSEL-KL-PA
- 439 THIN FILM POLYCRYSTALLINE FIELD EFFECT TRIODE#  
BY: RADIO CORPORATION OF AMERICA  
CONTRACT NO. DA-28-043-AMC-00231(E), NOVEMBER 1966  
ORDERING CODE: 1 AD-643 779, AMSEL-KL-ID
- 440 INTEGRATED CIRCUIT MODULES FOR COMMUNICATIONS#  
BY: RADIO CORPORATION OF AMERICA  
CONTRACT NO. DA-28-043-AMC-00454(E), AUGUST 1966  
ORDERING CODE: 1 AD-636 441, AMSEL-KL-IB
- 441 SOLID-STATE OPTICAL MASER RESEARCH#  
BY: RADIO CORPORATION OF AMERICA  
FINAL REPORT, DA-28-043-AMC-01214(E), JUNE 1966  
ORDERING CODE: 2 AD-483 560, AMSEL-KL-SH
- 442 DEVELOPMENT OF MAGNESIUM N-SIZE CELLS FOR BA-399( )/PRT-4 AND BA-305  
( )/PRH-P BATTERIES#  
BY: UNION CARBIDE CORP.  
FINAL REPORT, DA-36-039-AMC-03308(E), APRIL 1966  
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- 443 QUARTZ CRYSTAL RELIABILITY STUDIES#  
BY: COOK ELECTRIC CO.  
FINAL REPORT, CONTRACT DA-36-039-AMC-02350(E), MARCH 1966  
ORDERING CODE: 2 AD-480 078, AMSEL-KL-ST
- 444 OPTICAL PUMPS FOR LASERS#  
BY: WESTINGHOUSE ELECTRIC CORP.  
FINAL REPORT, DA-28-043-AMC-00292(E), MAY 1966  
ORDERING CODE: 2 AD-482 130, AMSEL-KL-TS
- 445 DEVELOPMENT OF THE SEALED ZINC SILVER OXIDE SECONDARY BATTERY SYSTEM  
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BY: YARNEY ELECTRIC CORP.  
CONTRACT NO. DA-36-039-AMC-02238(E), JUNE 1966  
ORDERING CODE: 1 AD-635 776, AMSEL-KL-PE
- 446 SMALL SIGNAL FUNCTIONAL CIRCUITS#  
BY: MOTOROLA INC.  
FINAL REPORT, CONTRACT DA-28-043-AMC-00150(E), MARCH 1966  
ORDERING CODE: 1 AD-680 690, AMSEL-KL-IC

- 447 TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR MATERIALS#  
BY: RENSSELAER POLYTECHNIC INST.  
CONTRACT NO. DA-28-043-AMC-01788(E), DECEMBER 1966  
ORDERING CODE: 1 AD-644 889, AMSEL-KL-IC
- 448 RESEARCH AND DEVELOPMENT INVESTIGATION OF A PRECISION DIGITAL FREQUENCY SYNTHESIZER FOR 5000#  
BY: COLLINS RADIO CO.  
FINAL REPORT, CONTRACT DA-28-043-AMC-80176, APRIL 1966  
ORDERING CODE: 2 AD-483 563, AMSEL-KL-SP
- 449 HIGH POWER GAS LASER IN THE VISIBLE#  
BY: SPECTRA-PHYSICS, INC.  
FINAL REPORT, CONTRACT DA-28-043-AMC-00194(E), MAY 1966  
ORDERING CODE: 2 AD-482 657, AMSEL-KL-SH
- 450 MICROWAVE PHASE SHIFTERS FOR INERTIALESS SCANNING (NON-RECIPROCAL)#  
BY: WESTINGHOUSE ELECTRIC CORP.  
FINAL REPORT, CONTRACT DA-28-043-AMC-00228(E), MARCH 1966  
ORDERING CODE: 2 AD-481 533, AMSEL-KL-EN
- 451 TRANSISTOR, FIELD EFFECT, INSULATOR GATE, 100-MC AMPLIFIERS#  
BY: RADIO CORPORATION OF AMERICA  
FINAL REPORT, CONTRACT DA-28-043-AMC-00314(E), MARCH 1966  
ORDERING CODE: 2 AD-480 416, AMSEL-KL-SS
- 452 MINIATURE CRYSTAL UNITS FOR SINGLE SIDEBAND OPERATIONS#  
BY: BLILEY ELECTRIC CO.  
FINAL REPORT, CONTRACT DA-28-043-00148(E), APRIL 1966  
ORDERING CODE: 2 AD-481 807, AMSEL-KL-SP
- 453 CESIUM BEAM TUBE RESEARCH#  
BY: VANIAN ASSOCIATES  
FINAL REPORT, CONTRACT DA-28-043-AMC-00464(E), JUNE 1966  
ORDERING CODE: 2 AD-483 446, AMSEL-KL-SH
- 454 FEASIBILITY STUDY OF METAL BASE TRANSISTORS#  
BY: SPRAGUE ELECTRIC CO.  
FINAL REPORT, CONTRACT DA 28-043 AMC-00168(E), SEPTEMBER 1966  
ORDERING CODE: AD-881 367, AMSEL-KL-SH
- 455 STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON ELECTRONIC PARTS AND MATERIALS (SCORRE)#  
BY: IBM CORP.  
FINAL REPORT, CONTRACT DA 28-043 AMC-00212(E), OCTOBER 1966  
ORDERING CODE: 2 AD-641 673, AMSEL-KL-EE
- 456 BROADBAND HARMONIC GENERATORS#  
BY: SPEHRY MICROWAVE ELECT. CO.  
FINAL REPORT, CONTRACT DA 28-043 AMC-01256(E), NOVEMBER 1966  
ORDERING CODE: 2 AD-881 829, AMSEL-KL-SH
- 457 NOVEL MICROWAVE FILTER DESIGN TECHNIQUES#  
BY: STANFORD RESEARCH INSTITUTE  
FINAL REPORT, CONTRACT DA 28-043 AMC-01271(E), SEPTEMBER 1966  
ORDERING CODE: 2 AD-800 824L, AMSEL-KL-EM
- 458 SOLID STATE TECHNIQUES FOR MODULATING OPTICAL WAVES#  
BY: APPLIED RESEARCH LAB.  
FINAL REPORT, CONTRACT DA 28-043 AMC-01281(E), OCTOBER 1966  
ORDERING CODE: 2 AD-803 142, AMSEL-KL-SH
- 459 FERROMAGNETIC, FERROELECTRIC AND ACOUSTIC DEVICES#  
BY: CLEVITE CORP.  
FINAL REPORT, CONTRACT DA 28-043 AMC-01359(E), NOVEMBER 1966  
ORDERING CODE: 2 AD-803 473L, AMSEL-KL-EC

- 460 ROOM TEMPERATURE LASER DIODES#  
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